

Title (en)

DEVICE FOR THE MAINTENANCE OF LAND, IN PARTICULAR FOR THE CUT OF GRASS, AND RELATED MANUFACTURING AND OPERATING METHODS

Title (de)

VORRICHTUNG ZUR PFLEGE VON LAND, INSBESONDERE FÜR GRASSCHNITT, UND ZUGEHÖRIGE HERSTELLUNGS- UND BETRIEBSVERFAHREN

Title (fr)

DISPOSITIF POUR L'ENTRETIEN DE TERRAINS, EN PARTICULIER POUR LA COUPE D'HERBE, ET PROCÉDÉS DE FABRICATION ET D'EXPLOITATION ASSOCIÉS

Publication

EP 4252517 A2 20231004 (EN)

Application

EP 23162930 A 20230320

Priority

IT 202200006533 A 20220401

Abstract (en)

The present invention relates to a device (2) for cutting grass. The device (2) comprises a shell (3) and at least one electric motor (10). The electric motor (10) comprises a stator (11) and a rotor (12), the rotor (12) being arranged outside the stator (11). The rotor (12) is at least partially configured to act, in a condition of use of said device (2), as a payload (4) of the device (2). The rotor (12) comprises a core (13) having a shape such as to enclose the stator (11), a hub (14) having a shape such as to allow the core (13) to be rotatably mounted with respect to the stator (11) and at least one cutting element (4a), which is constrained to the core (13) and extends from the core (13) away from the stator (11). The stator (11) is housed in a cavity (18) of the device (2). The rotor (12) is configured to act as a ventilation member intended to establish, in the cavity (18), a forced air flow useful to allow a cooling of said stator (11) by forced convection. The present invention further relates to a manufacturing method of the device (2) and an operating method of the device (2).

IPC 8 full level

A01D 34/00 (2006.01); **A01D 34/66** (2006.01); **A01D 34/685** (2006.01); **A01D 34/695** (2006.01); **A01D 34/73** (2006.01); **A01D 34/74** (2006.01); **A01D 34/78** (2006.01); **A01D 34/81** (2006.01); **H02K 1/2786** (2022.01)

CPC (source: EP)

A01D 34/008 (2013.01); **A01D 34/66** (2013.01); **A01D 34/685** (2013.01); **A01D 34/695** (2013.01); **A01D 34/733** (2013.01); **A01D 34/74** (2013.01); **A01D 34/78** (2013.01); **A01D 34/81** (2013.01)

Citation (applicant)

- EP 3583834 B1 20201230 - STIGA S P A IN BREVE ANCHE ST S P A [IT]
- CN 110063119 A 20190730 - SICHUAN YIBEI POWER TECH CO LTD

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4252517 A2 20231004; **EP 4252517 A3 20231213**; IT 202200006533 A1 20231001

DOCDB simple family (application)

EP 23162930 A 20230320; IT 202200006533 A 20220401